Name:

at1113exam: Expand, factor, and solve quadratics (v304)

1. Expand the following expression into standard form.

$$(2x - 3)^2$$

2. Solve the equation.

$$(4x - 7)(2x + 9) \;=\; 0$$

3. Expand the following expression into standard form.

$$(3x - 5)(8x - 9)$$

4. Expand the following expression into standard form.

$$(2x - 7)(2x + 7)$$

5. Solve the equation.

$$10x^2 + 50x + 60 \;=\; 5x^2 + 3x + 4$$

6. Solve the equation with factoring by grouping.

$$6x^2 + 15x + 8x + 20 \;=\; 0$$

7. Factor the expression.

$$49x^2 - 36$$

8. Factor the expression.

$$x^2 - 11x + 24$$